

- Aster Tradescanti* L. Common on low levels. September, October.
- Aster undulatus* L. On upper levels in dry woods. October.
- Erigeron pulchellus* Michx. Not common, woods. May.
- Erigeron ramosus* (Walt.) B.S.P. Fields and roadsides, common. July, August.
- Eupatorium perfoliatum* L. Not common, on lower levels near brooks. August, September.
- Eupatorium purpureum* L. Roadsides and thickets in lower levels. September.
- Eupatorium urticaefolium* Reichard. Growing usually with *E. perfoliatum*, but also found occasionally on higher ground. August, September.
- Gnaphalium polycephalum* Michx.
- Gnaphalium purpureum* L. In open dry locations. September, October.
- Helianthus decapetalus* L. Bordering brooks in low, damp woods. September.
- Hieracium scabrum* Michx. Not common, dry localities. August.
- Solidago arguta* Ait. Roadsides and fields. August, September.
- Solidago bicolor* L. Common in woody paths. August, September.
- Solidago erecta* Pursh. Dry hillside. August, September.
- Solidago graminifolia* (L.) Salisb. Moist woods near roads. August.
- Solidago hispida* Muhl. Dry, rocky woods. August.
- Solidago squarrosa* Muhl. Rocky woods. September.
- Tussilago Farfara* L. In roadside trickles, spreading of late noticeably. May.
- NEW YORK.

LICHENS FROM JAVA

BY G. K. MERRILL

The lichens here listed were collected by Mr. Max Fleischer in various localities of Java, and submitted to the writer for identification. The material proved of much interest from containing several rare and little known species.

LEPTOGIUM CYANIZUM Nyl. in Cromb. Challeng. Exped. p. 227.

L. cyanescens Nyl. Syn. p. 131.

On tree trunk, Buitenzorg; No. 33.

Spores globular and ellipsoid with a thickened epispore, measuring $14-17 \times 11-12 \mu$, or $11-12 \mu$ for the globular ones. Asci ventricose, the apical wall thickened, eight-sporous. Algae Nostoc.

Previously reported from Nukahiva of the Polynesian Islands, and from New Caledonia.

BAEOMYCES CRENULATUS (Mont.) Hepp in Zoll. Verg. pp. 5 and 7.

On earth, West Java; alt. 1500 m. No. 29.

Thallus sordid-whitish, granulate. Stipes very short (1-2 mm.). Apothecia 3-5 mm. in diameter, plane or slightly convex, the margin more or less crenulate, at length excluded. Spores simple, blunt-fusiform, $10 \times 3 \mu$, diagonally and serially arranged in clavate asci.

The species seems very near *B. byssoides*.

Never collected elsewhere so far as ascertained.

STEREOCAULON TURGESCENTS Nyl. Syn. p. 240.

On earth, Aloen-Aloen, Kandang-Badak, and Tjipanas; alt. 2000-2900 m. Nos. 5, 2, 9 and 13.

Podetia simple or branched, when branched having much the aspect of *S. denudatum*. Apothecia juvenile, containing no asci or spores.

Previously collected in Java, and credited to West Africa.

STEREOCAULON CORALLOIDES Fr. Sched. Crit. IV, p. 24.

On earth, Tjipanas; No. 23.

Juvenile plants, but quite characteristic.

STEREOCAULON NESAEUM Nyl. Syn. p. 240. Sub *S. mixtum*.

On thin earth over rocks, Aloen-Aloen and Kandang; Nos. 20 and 26.

Podetia elongated, erect, unbranched or scarcely branched. Phyllocladia prolonged into fibrils. Spores acicular, $87 \times 5 \mu$, multiseptate. Cephalodia 2-7 mm. in diameter, plicate-corrugate, blue-brown or flesh-colored, often developing on the ends of the shorter fibrils.

Reported from the Philippines, and other Pacific islands.

CLADONIA PITYREA var. CARNEOPALLESCENS Nyl. in Flora, 1866,
p. 129.

On earth, Aloen-Aloen; alt. 2900 m. No. 14.

Reaction K—. The apothecia rufous or variegated in the
mature plant.

No record discovered except for Java.

ROCCELLA MONTAGNEI (Bel.) Darbish. Mon. Roccell. p. 24.

On rocks, Batavia; No. 28.

Without apothecia. Widely distributed in the tropics.

ROCCELLA FUCIFORMIS (L.) DC. Fl. Fr. II. p. 335.

On rocks, Batavia; No. 28.

Without apothecia.

RAMALINA YEMENSIS (Ach.) Nyl. Mon. Ram. p. 46.

On trees, Tjipanas; alt. 1000 m. No. 6.

Laciniae narrow, but entirely characteristic.

Confined to subtropical regions and the Southern hemisphere.

USNEA TRICHODEA Ach. Method. p. 312.

On trees, Tjipanas; alt. 1000 m. No. 24.

USNEA **florida** var. **Sorediata** (Kremplh.) Merrill comb. nov.

On trees, Tjipanas; No. 4.

The main branches more or less reddish and nearly e fibrillose.

USNEA FLORIDA var. STRIGOSA Ach. Method. p. 310.

On trees, Tjipanas; Nos. 8 and 24.

No. 24 with radiately-fibrillose apothecia.

USNEA ARTICULATA (L. Hoffm.) Hoffm. Deutsch. Fl. p. 135.

On trees, Aloen-Aloen and Kadang; alt. 2900 m. No. 1.

Beautifully characteristic but without apothecia.

PLATYSMA CITRINUM (Tayl.) Nyl. Syn. p. 304.

On tree trunks, Aloen-Aloen and Kadang; alt. 2900 m. Nos.
10, 12 and 21.

Spores ellipsoid, simple, $5-6 \times 3 \mu$, asci ventricose-oblong.

PLATYSMA GLAUCUM (L.) Nyl. Prod. p. 49.

On trees, Pangerango; alt. 2700 m. No. 15.

Without apothecia.

PARMELIA PERTUSA (Schrank.) Schaer. Lich. Helv. Spiclg. II,
p. 457.

On trees, Aloen-Aloen; No. 22.

The edges of the laciniae more or less denigrate.

PARMELIA PHYSODES (L.) Ach. Method. p. 250.

On bark, Bintang; No. 18.

Peculiarly combining the characters of the species *P. enteromorpha* and *P. vittata*.

PARMELIA LAEVIGATA (Sm.) Ach. Syn. p. 212.

On small branch of a tree, Aloen-Aloen; alt. 2900 m. No. 27.

Without apothecia.

PARMELIA PERFORATA Ach. Method. p. 217.

On trees, Bintang; alt. 1500 m. No. 17.

Apothecia imperforate, the exciple strongly scrobiculate-rugose.

PARMELIA OLIVARIA forma CETRARIOIDES (Del.) Merl. in Bryologist, XI, p. 95.

On trees, Tjipanas; No. 7.

Reaction $K =$, $K(C) +$ distinct red for the medulla.

THELOSCHISTES FLAVICANS (Sw.) Norm. Conat. Gen. Li. p. 17.

On trees, Tjipanas; alt. 1000 m. No. 3.

Without apothecia.

PHYSICIA (PSEUDOPHYSCIA) HYPOLEUCA var. DENDRITICA (Pers.)

Hue Lich. Ex. Eur. I, p. 113.

On trunks, Aloen-Aloen; No. 25.

Densely rhizinose-squarrose beneath.

STICTA (STICTINA) MOUGEOTIANA var. XANTHOLOMA Del. Stict.

p. 63.

On twigs, Aloen-Aloen; No. 25.

Without apothecia. A tropical species of which very little is known.

The var. *aurigera* of *S. Mougeotiana* also credited to Java by Nylander.

STICTA (STICTINA) CROCATA (L.) Ach. Prod. p. 158.

On rocks. Aloen-Aloen; alt. 2900 m. No. II.

Without apothecia.

STICTA DAMAECORNIS (Sw.) Ach. Method, p. 276.

On trunks, West Java; alt. 1500 m. No. 30.

Without apothecia.

ROCKLAND, MAINE.

SHORTER NOTES

A TETRACARPELLARY WALNUT. The curiously malformed walnut shown in the accompanying sketches was found in a lot of walnuts purchased in Pittsburgh, about the time of the publication of Wm. H. Lamb's note on "A Tricarpellary Walnut"

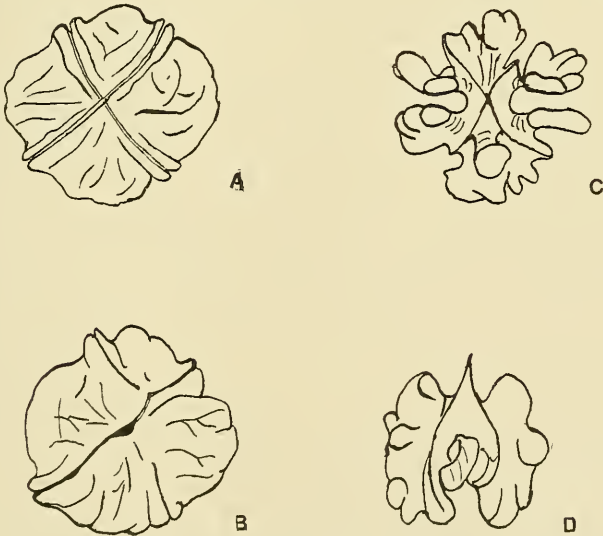


FIG. 1. A tetracarpellary walnut. A, Front or pointed end. B, Back or rounded end. C, Front view of kernel. D, Top view of kernel.